SAFETY DATA SHEET			loneywell Riedel-de Haën™
Acetonitrile 34998-1L			
Version 1.6 Issuing date 12/	/14/2016	Revision Date 05/06/2024	Print Date 05/08/2024
1. IDENTIFICATION OF THE SU	BSTANCE/	MIXTURE AND OF THE COMPA	ANY/UNDERTAKING
Product information			
Trade name	: Acetor	itrile	
Number	: 00000	0020248	
Recommended use of the chemical and restrictions on use	: Labora	tory chemicals	
Manufacturer or supplier's details	GmbĤ Wunst	orfer Straße 40 , 30926	
For further information, please contact:	+1-231	368-0050 -726-3171 av Friday, 0:00am 5:00am)	
In case of emergency call	Medic Trans 527-38	ay-Friday, 9:00am-5:00pm) al: 1-800-498-5701 or +1-303-38 portation (CHEMTREC): 1-800-4 87 an: 0800-300-5842	
2. HAZARDS IDENTIFICATION			
Classification of the substa	ance or mix	ture	
Classification of the substance or mixture	Acute Acute Eye i Spec	mable liquids, Category 2 e toxicity, Category 4, Oral e toxicity, Category 4, Inhalation rritation, Category 2A ific target organ toxicity - single e ral nervous system	exposure, Category 1,
GHS Label elements, inclue	ding preca	utionary statements	
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		1/15	

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Acetonitrile			
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Symbol(s)			
Signal word	: Dang	ger	
Hazard statements	Harn Caus Harn	ly flammable liquid and vapour. nful if swallowed. ses serious eye irritation. nful if inhaled. ses damage to organs.	
Precautionary stat	Keep smol Keep Grou Use Use Take Do n Was Do n Use Wea	vention: D away from heat/ sparks/ open fl king. D container tightly closed. und/bond container and receiving explosion-proof electrical/ ventila only non-sparking tools. De precautionary measures agains to breathe dust/ fume/ gas/ mist/ h skin thoroughly after handling. not eat, drink or smoke when usin only outdoors or in a well-ventilat r protective gloves/ protective closection.	equipment. ting/ lighting equipment. t static discharge. vapours/ spray. g this product. ted area.
	IF S phys IF OI conta IF IN posit IF IN Rem rinsir IF ex If eye In ca	MALLOWED: Call a POISON CE vician if you feel unwell. Rinse mo N SKIN (or hair): Remove/ Take aminated clothing. Rinse skin wit HALED: Remove victim to fresh tion comfortable for breathing. I EYES: Rinse cautiously with wa rove contact lenses, if present an ng. cposed: Call a POISON CENTER e irritation persists: Get medical a use of fire: Use dry sand, dry cher of for extinction.	outh. off immediately all h water/ shower. air and keep at rest in a tter for several minutes. d easy to do. Continue t or doctor/ physician. advice/ attention.
	Stor	age:	
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etonitrile			
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	_		
		e in a well-ventilated place. Keep e locked up.	cool.
	•	osal: ose of contents/ container to an a 	approved waste disposal
COMPOSITION/INFORM	ATION ON INGF	EDIENTS	
Formula	: C2H3	N	
Chemical nature	: Subst	ance	
Chemical name		CAS-No.	Concentration
Acetonitrile Acetonitrile		75-05-8	100.00 %
IRST AID MEASURES			
Inhalation	If not If brea Use o prese	ove to fresh air. breathing, give artificial respiratio athing is difficult, give oxygen. oxygen as required, provided a qu nt. physician.	
Skin contact	minute Take	off immediately with plenty of wa es. off contaminated clothing and sh contaminated clothing before re	noes immediately.
		physician.	-456.
Eye contact	Call a : Rinse for at		
Eye contact Ingestion	Call a : Rinse for at Call a : Call a Do no Imme	e physician. e immediately with plenty of water least 15 minutes.	r, also under the eyelids, al advice. ed.

SAFETY DATA SHEET Honeyw Riedel-de Haën" Acetonitrile 34998-1L Version 1.6 Issuing date 12/14/2016 Revision Date 05/06/2024 Print Date 05/08/2024 Notes to physician : Treat as cyanide poisoning. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. **5. FIREFIGHTING MEASURES** Suitable extinguishing media : Carbon dioxide (CO2) Dry chemical Alcohol-resistant foam Cool closed containers exposed to fire with water spray. Unsuitable extinguishing : Do not use a solid water stream as it may scatter and spread media fire. Specific hazards during : Flammable. firefighting Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. In case of fire hazardous decomposition products may be produced such as: Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. : Wear self-contained breathing apparatus and protective suit. Special protective equipment for firefighters 6. ACCIDENTAL RELEASE MEASURES Personal precautions. : Wear personal protective equipment. Immediately evacuate personnel to safe areas. protective equipment and emergency procedures Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing. : Prevent further leakage or spillage if safe to do so. Environmental precautions Prevent product from entering drains. Discharge into the environment must be avoided. 4/15

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		t flush into surface water or sanit t allow run-off from fire fighting to es.	
Methods and materials fo containment and cleaning	up No sp Use e Conta materi and tra	ate the area. arking tools should be used. xplosion-proof equipment. in spillage, soak up with non-con ial, (e.g. sand, earth, diatomaced ansfer to a container for disposal al regulations (see section 13).	ous earth, vermiculite)
HANDLING AND STORAG	E		
Handling			
Precautions for safe hand	Use of Keep Do no Do no	personal protective equipment. nly in well-ventilated areas. container tightly closed. t smoke. t swallow. breathing vapours, mist or gas.	
		contact with skin, eyes and cloth	ing.
 Advice on protection against fire and explosion Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharge Ensure all equipment is electrically grounded before b transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat an ignition. No sparking tools should be used. No smoking. 		static discharges. unded before beginning	
Storage			
Conditions for safe storag	Protec Keep	in area designed for storage of fl ct from physical damage. containers tightly closed in a dry, ated place.	

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		Store a Contai Do not	away from direct sunlight. away from incompatible su iner hazardous when empt t pressurize, cut, weld, bra e containers to heat or sou	y. ze, solder, drill, grind or
Components	South workplace consultances with occ	ontrol p		
Containe no c		apation		
Use with loca	engineering contro I exhaust ventilatior ur buildup by provid	۱.	quate ventilation during an	d after use.
		-	as personal protective e	
Respiratory p			e of insufficient ventilation,	,
Hand protecti	on :	Gloves	nt-resistant gloves s must be inspected prior t ce when worn.	o use.
Eye protection	n :	Wear a Safety If splas	t wear contact lenses. as appropriate: glasses with side-shields shes are likely to occur, we es or face shield, giving co	
Skin and body	y protection :	Solver Flame If spla:	as appropriate: nt-resistant apron retardant antistatic protec shes are likely to occur, we tive suit	
Hygiene mea	sures :	Wash produc Keep v Remov		mmediately after handling the

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etonitrile			
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	Avoid breathing vapours, mist or gas		
	Avoid contact with skin, eyes and clo	thing.	
Protective measures	 Ensure that eyewash stations and sa the workstation location. Legal requirements are to be conside selection, use and care of personal p 	ered in regard of the	
PHYSICAL AND CHEMICAL	PROPERTIES		
Physical state	: liquid		
Colour	: colourless		
Odour	: characteristic		
Odour Threshold	: Note: No data available		
рН	: Note: Not applicable		
Melting point/range	: -46 °C		
Boiling point/boiling range	: 82 °C at 1,013 hPa		
Flash point	: 55.0 °F (12.8 °C) Method: closed cup		
Evaporation rate	: Note: No data available	: Note: No data available	
Lower explosion limit	: 3 %(V)		
Upper explosion limit	: 16 %(V)		
Vapour pressure	: 97 hPa at 20 °C(68 °F)		
	147 hPa at 30 °C(86 °F)		

SAFETY DATA SHEET Honeywe Riedel-de Haën™ Acetonitrile 34998-1L Version 1.6 Issuing date 12/14/2016 Revision Date 05/06/2024 Print Date 05/08/2024 Vapour density : 1.42 Note: (Air = 1.0)Density : 0.7857 g/cm3 at 20 °C Water solubility : Note: completely miscible Partition coefficient: n-: log Pow: -0.34 octanol/water Ignition temperature : 524 °C Viscosity, kinematic : Note: No data available Molecular weight : 41.05 g/mol **10. STABILITY AND REACTIVITY** : Stable under normal conditions. Chemical stability Possibility of hazardous : Hazardous polymerisation does not occur. reactions Conditions to avoid : Heat, flames and sparks. Keep away from direct sunlight. Incompatible materials to : Acids avoid Bases Oxidizing agents Reducing agents Sulfites Perchlorates May attack many plastics, rubbers and coatings. Hazardous decomposition : In case of fire hazardous decomposition products may be products produced such as: Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. 8/15

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Acetonitrile 34998-1L		D : + D + + 05/00/0004
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11. TOXICOLOGICAL INFORMATI	ON	
Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact	ct, Ingestion
Acute oral toxicity	: LD50: 617 mg/kg Species: Rat Method: OECD Test Guideline 401	
Acute inhalation toxicity	: Note: Classification based on Anne 1272/2008/EC.	x VI of regulation
	: Acute toxicity estimate: 11 mg/l Method: Calculation method	
Acute dermal toxicity	: Note: Classification based on Anne 1272/2008/EC.	x VI of regulation
	: Acute toxicity estimate: 2,500 mg/k Method: Calculation method	٢g
Skin corrosion/irritation Acetonitrile	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404 Exposure time: 4 h	
Serious eye damage/eye irritation	: Species: Rabbit Result: Irritating to eyes.	
Skin sensitisation Acetonitrile	: Buehler Test Species: Guinea pig Result: Did not cause sensitisation Method: OECD	on laboratory animals.
Respiratory sensitisation Acetonitrile	: Note: No data available	
Germ cell mutagenicity	: Note: Not classified due to data wh insufficient for classification.	ich are conclusive although
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cetonitrile 4998-1L /ersion 1.6 Iss	uing date 12/14/2016	Revision Date 05/06/2024	Print Date 05/08/20		
Carcinogenicity	: Not	te: No data available			
Reproductive to:	kicity : Not	te: No data available			
Specific target o		: Assessment :The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.			
Specific target o - repeated expo	0	: Note :No data available			
Aspiration toxicity : No		data available			
The toxic May May		OT - single exposure: e substance or mixture is classified a icant, single exposure, category 1. y cause convulsions. y cause neurotoxic effects. sed on Human Evidence.	as specific target organ		
2. ECOLOGICAL IN	IFORMATION				
Aquatic and eco	toxicity				
Toxicity to fish	LC5 Exp	 flow-through test LC50: 1,640 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) 			
Toxicity to daphi aquatic inverteb		er : Note: Not classified due to data which are conclusive althous insufficient for classification.			
Toxicity to algae Acetonitrile	: stat NOI Exp	tic test EC: 400 mg/l posure time: 72 h ecies: Phaeodactylum tricornutum			
	•				

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	static	test	
): 9,696 mg/l sure time: 72 h	
		es: Phaeodactylum tricornutum	
Toxicity to bacteria	: static	test	
		C: 320 mg/l sure time: 30 min	
		es: activated sludge od: OECD 209	
Persistence and degradabilit	-		
Biodegradability	: Note:	No data available	
Bioaccumulative potential			
Bioaccumulation	: Note:	No data available	
Mobility in soil			
-	. Noto	No data available	
Mobility	. Note.		
13. DISPOSAL CONSIDERATION	16		
13. DISPOSAL CONSIDERATION	10		
WDPCL Waste Disposal and Public Cleansing Law	: Speci	ally Controlled Industrial Waste	
Disposal methods	: In acc	cordance with local and national re	egulations.
14. TRANSPORT INFORMATION			
		240	
UN/ID No.	: UN 10	11/15	
		11/15	

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cetonitrile			
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Description of the goods	: ACETONIT	'RII E	
Class Packing group	: 3 : II		
Packing group Classification Code	: II · F1		
Hazard Identification Number			
Labels	: 3		
ΙΑΤΑ			
UN/ID No.	: UN 1648		
Description of the goods	: Acetonitrile		
Class	: 3		
Packing group Labels	: II : 3		
Packing instruction (cargo	: 364		
aircraft) Packing instruction	: 353		
(passenger aircraft)			
Packing instruction (passenger aircraft)	: Y341		
IMDG			
UN/ID No.	: UN 1648		
Description of the goods	: ACETONIT	RILE	
Class Decking group	: 3 : II		
Packing group Labels	: 3		
EmS Number 1	: F-E		
EmS Number 2	: S-D		
Marine pollutant	: no		
. REGULATORY INFORMATION			
National regulatory informati			
Chemical Substance : Control Law	Listed Type II Moni	toring Chemical Substance	•
DES (JP)	Reference:		
Substances Subject to be :			
Notified Names JP MSDSD	Threshold Co	oncentration: 1 % wt 15	
	12	2/15	

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Vessel Safety Law JP VSL		ble liquids (Article 2 and 3 of rule of dangerous goods and its Atta	
Aviation Law JP AVL	: Flammable liquid (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)		orcement Rules of
Fire Service Law	Type 1 Hazar Water	4 Flammable liquids 1 petroleums dous rank II soluble away from fire	
Poisonous and Deleterious Substances Control Law			eutical use
Other international regulati	ons		
Notification status USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended	: All sub	ostances listed as active on the T	SCA inventory
Australian Inventory of Industrial Chemicals		nponents are listed on the inventions/restrictions apply	tory, regulatory
Canada. Domestic Substances List (DSL), as amended	: All cor	nponents of this product are on t	he Canadian DSL
Japan. Kashin-Hou Law List	: On the	e inventory, or in compliance with	the inventory
Korea. Existing Chemicals	: On the	e inventory, or in compliance with 13/15	the inventory

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Inventory (KECI)

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	: On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	: On the inventory, or in compliance with the inventory
Taiwan Chemical Substance Inventory (TCSI)	: On the inventory, or in compliance with the inventory
Thailand. Existing Chemicals Inventory from FDA (TECI List)	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions. Previous Issue Date: 01/06/2021 Revision Date: 05/06/2024 Version 1.6 Issuing date 12/14/2016 Prepared by Honeywell Energy and Sustainabilty Solutions Product Stewardship Group Product Stewardship Group